

### Amendments to the Specification

Please replace the paragraph beginning at page 6, line 24 with the following rewritten paragraph:

Figs. 8a and 8b shows two possibilities for the decoupling of two coils. Fig. 8a shows two coils 60, 61, or their equivalent diagrams, consisting of a resistance R, a capacitance C and an ideal coil L, which components are coupled to one another via the coupling factor M. For the decoupling of the coils 60, 61 from one another there is provided a transformer T whose windings T1 and T2 have an opposed winding sense and hence decouple the coils from one another.

Please replace the paragraph beginning at page 6, line 33 with the following rewritten paragraph:

Figs. 9a and 9b shows further possibilities for the decoupling which are suitable in particular for the decoupling of the individual RF coils within an RF coil array. Fig. 9a shows an RF cable 70 in the form of a coaxial cable having a length  $\lambda/2$ , the coils to be decoupled being connected to the end thereof. Fig. 9b shows two RF cables 71, 72, each having a length  $\lambda/4$ , wherebetween a coil L is connected to ground. Fig. 9c shows two RF cables 73, 74 of different length wherebetween an impedance transformation circuit 75 is provided. Fig. 9d shows an RF cable of the length 76, to the end of which there is connected an impedance transformation circuit 77. Fig. 9e shows the decoupling by means of a transformer 78. It is to be noted that the decoupling possibilities shown in the Figs. 8a, 8b, and 9a, and 9b represent preferred embodiments and that in principle other possibilities can also be used for the decoupling of individual RF coils from one another or of the RF coil arrays from one another.